

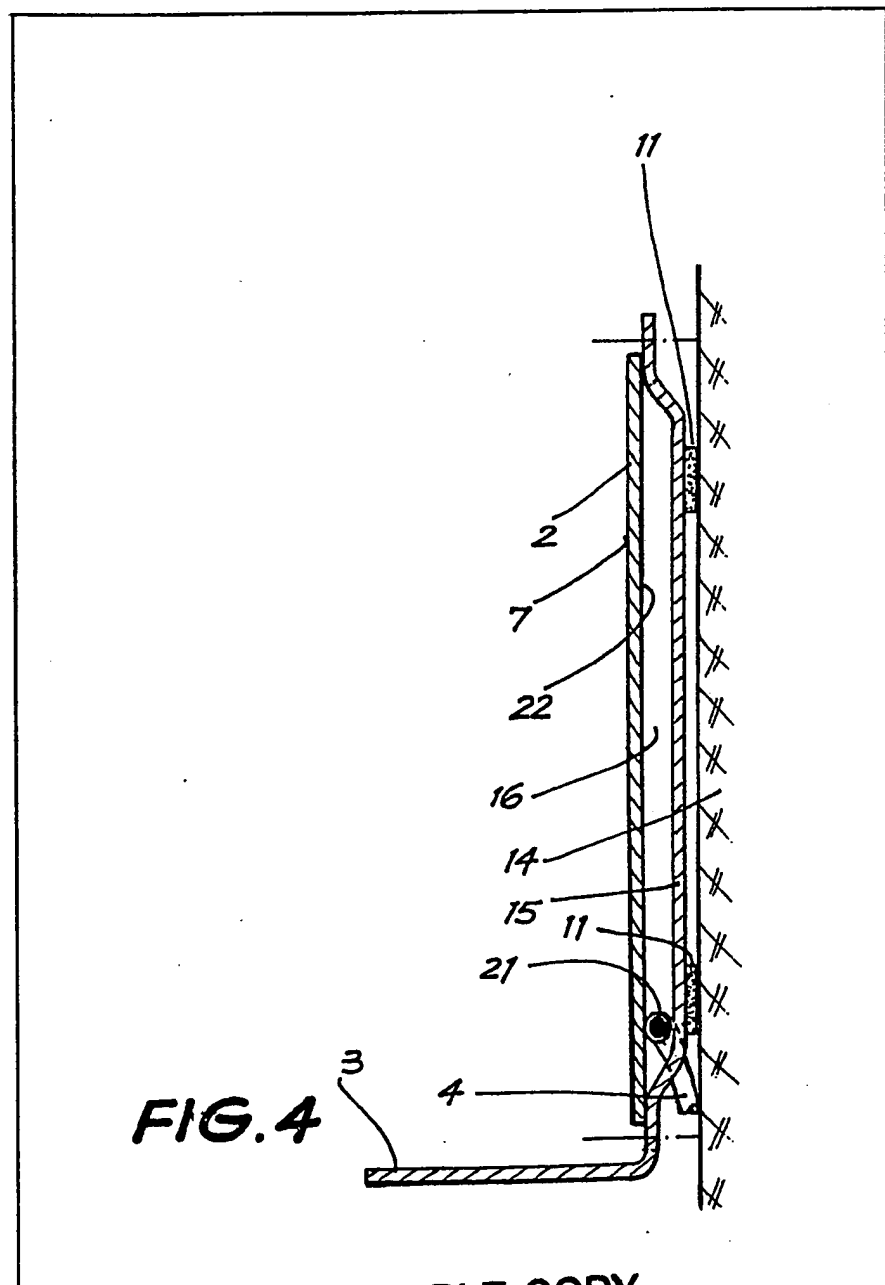
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(54) Non-foggable mirror

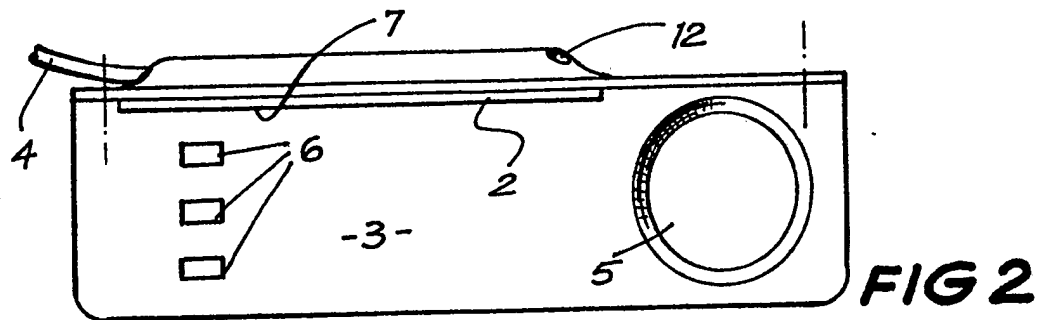
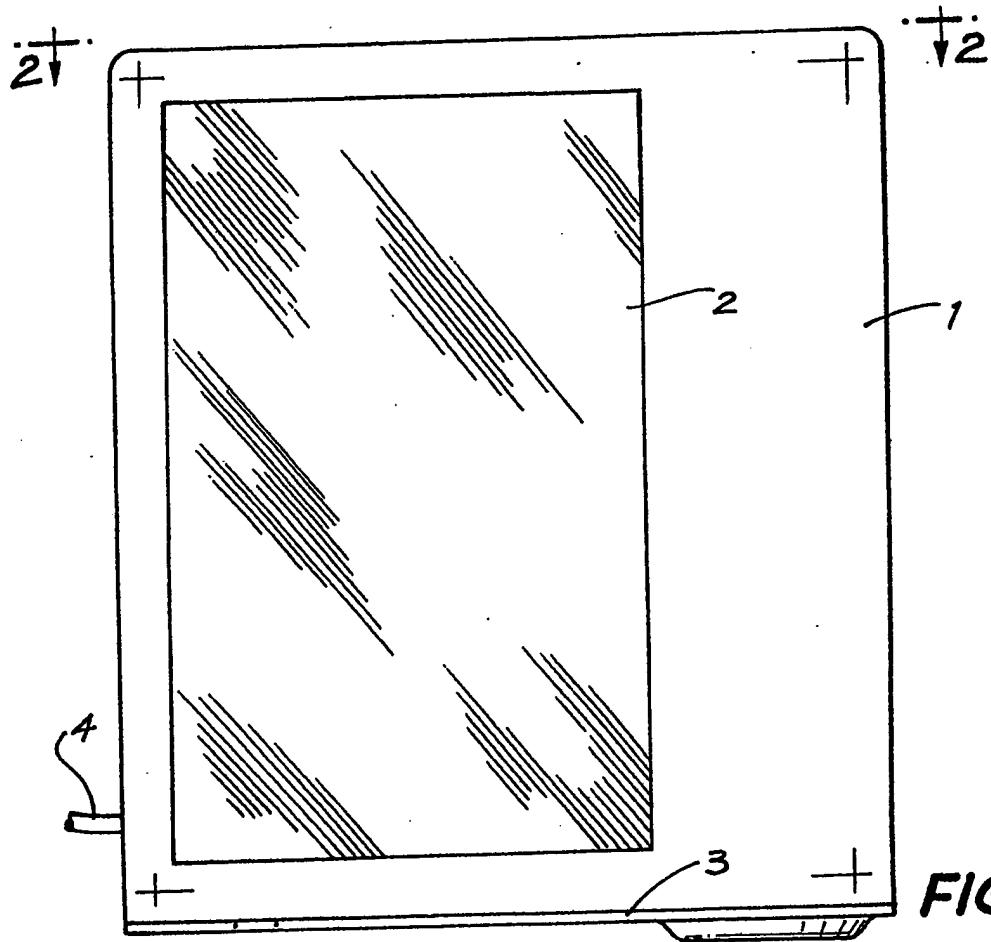
(57) A non-foggable mirror comprises  
a reflective surface 7; a back surface  
22; a chamber 16 in heat exchange

relationship with substantially the  
entire said back surface, whereby  
when heated water flows through said  
chamber, the said reflective surface is  
heated to prevent fogging.

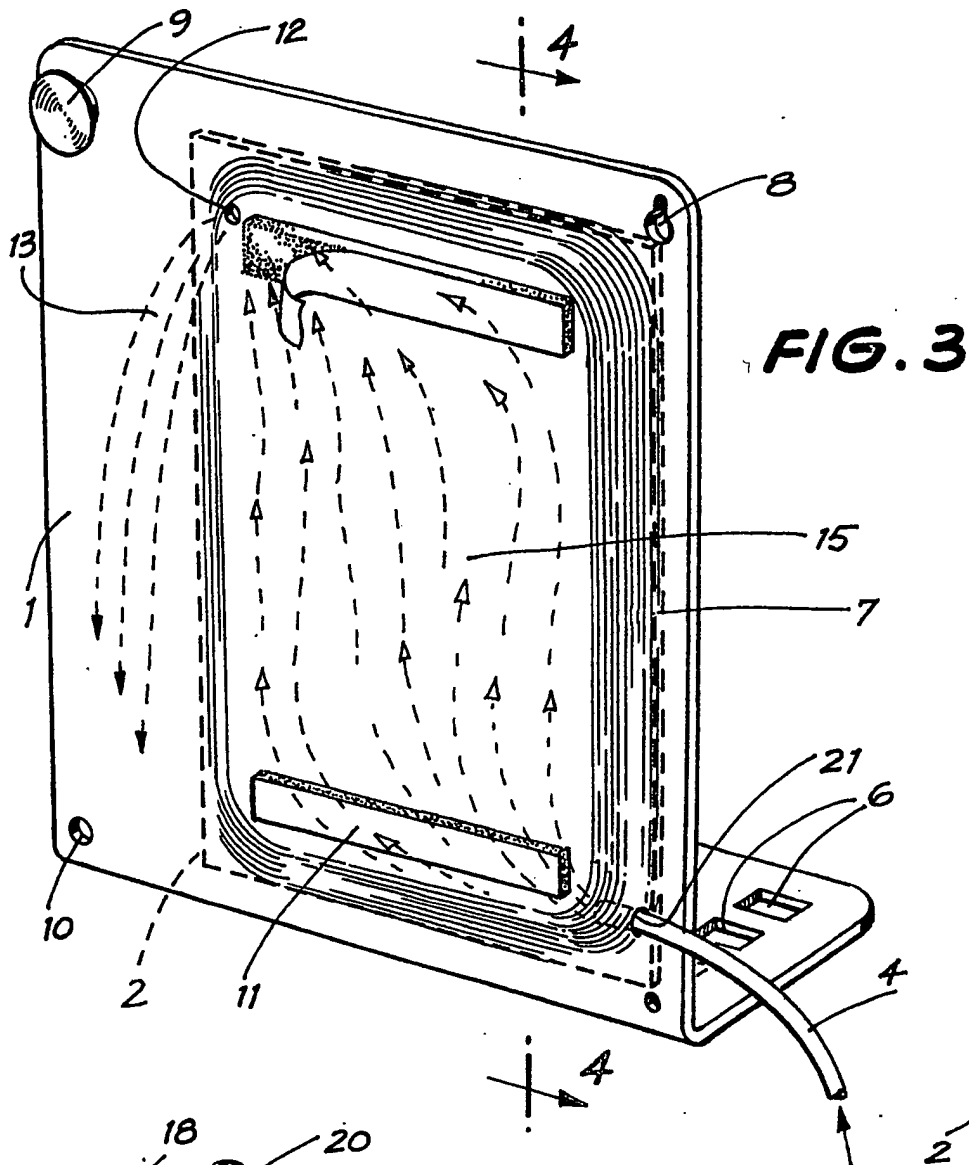


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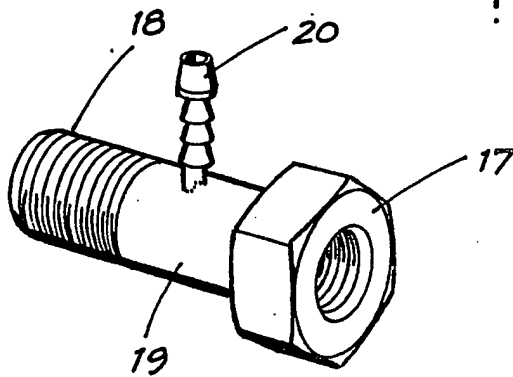
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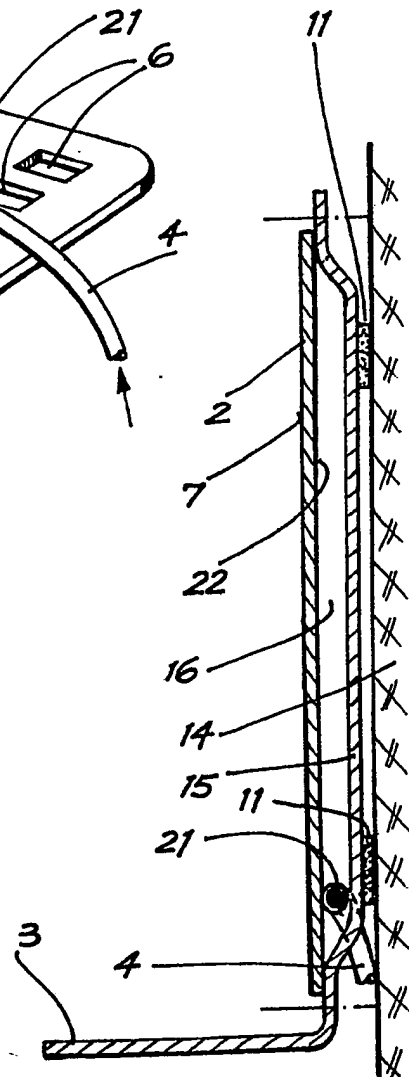


**FIG. 3**



**FIG. 5**

**FIG. 4**



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## SPECIFICATION

### Non-fogging mirror

This invention relates to non-fogging mirrors and in particular to non-fogging mirrors for use in bathrooms and shower recesses.

It is well known that moisture will condense on any cold surface and if that surface is a mirror, the condensed moisture will make the mirror non-reflective. Before the mirror can be used to assist in shaving, it is necessary that it be wiped down with a cloth to remove the condensed moisture thereon. Even this procedure is ineffective if the room is still filled with steam as secondary condensation will occur.

The present invention seeks to overcome, or at least substantially alleviate the above disadvantages.

In its broadest aspect, the invention provides a non-foggable mirror which comprises a reflective surface, a back surface, a chamber in heat exchange relationship with substantially the entire said back surface, whereby when heated water flows through said chamber, the said reflective surface is heated to prevent fogging.

The present invention also provides:

A non-foggable mirror comprising a reflective surface, a back surface, a chamber in heat exchange relationship with substantially the entire said back surface, said chamber having at least one inlet port and at least one outlet port, whereby when heated water flows through said chamber, the said reflective surface is heated to prevent fogging.

The present invention also provides:

A non-foggable mirror comprising a reflective surface, a back surface, a frame adapted to hold said back surface in heat exchange relationship with a chamber having at least one inlet port and at least one outlet port, whereby when heated water flows through said chamber, the said reflective surface is heated to prevent fogging.

The present invention also provides:

An adaptor for a shower outlet comprising a male and female end and a spigot branch for use with a non-foggable mirror as defined above.

By way of example only, an illustrative embodiment of the invention will now be described with reference to the accompanying drawings, in which:

Fig. 1 is a front elevation of a preferred embodiment of the present invention,

Fig. 2 is a plan view on the line 2—2 of Fig. 1,

Fig. 3 is a rear perspective view of the embodiment of Fig. 1,

Fig. 4 is a section view on the line 4—4 of Fig. 3,

Fig. 5 is a perspective view of an adaptor for use with the embodiment of Fig. 1.

In Figure 1 the preferred embodiment consists of a plastics mirror 2 having a reflective surface 7 and a back surface 22. The mirror 2 is peripherally attached to a plastics frame 1. Said frame 1 having a recess back portion 15, as shown in Figures 3 and 4, with the mirror 2 forming a

chamber 16 therebetween.

For convenience the base of frame 1 is in the form of a shelf 3 extending forward thereof. In the shelf 3 is a recess 5 for holding shaving cream and holes 6 for holding disposable plastic razors.

There is shown in Figure 5 an adaptor for fitting on to a shower outlet pipe. This adaptor 19 has a female end 17, a male end 18 and a spigot branch 20. In Australia, older homes have a male end shower outlet, whereas the newer homes have a female end outlet. Adaptor 19 was specifically designed to meet this problem.

The present mirror can be affixed to a wall 14 by any suitable means. As seen in Figure 3 the attachment may be by way of supporting hooks previously fixed into the wall and over which frame 1 is hung by means of holes 8 conveniently located on the rear of frame 1. Other means of attaching the frame 1 to wall 14 are by double-sided adhesive tape 11, by suction cap 9 or by simply nailing or screwing through hole 10. By way of illustration only the frame 1 is attached to wall 14 by double-sided adhesive tape 11 as shown in Figure 4.

In operation the adaptor 19 is first affixed to the shower outlet pipe by removing the shower rose (not shown), attaching the adaptor 19 and replacing the shower rose. The free end of inlet pipe 4 is affixed spigot fashion to spigot branch 20 and the frame 1 is attached to the wall 14 of a shower recess by any suitable means and at any convenient height.

When the shower is turned on, some of the warm-hot water bypasses the shower rose and enters the chamber 16 through inlet port 21. The water then circulates throughout chamber 16 before exiting through outlet port 12. From there the water flows down the rear side 13 of frame 1.

By reason of the constantly circulating warm-hot water the reflective surface 7 is heated preventing fogging.

The present invention has been trial tested for twelve months and found to be effective.

The preferred embodiment of the invention is particularly suitable for use in shower recesses where it will enable a person to shower and shave at the same time.

Although this invention has been described in its preferred form with a degree of particularity, the present disclosure has been made by way of example only, for it is to be understood that numerous changes may be made in materials used, in design and construction both of the frame and the water course for example a baffled or coiled chamber could be used; and in the manner of attachment of the frame, without departing from the spirit and scope of the invention as defined in the appended claims.

## CLAIMS

1. A non-foggable mirror comprising a reflective surface; a back surface; a chamber in heat exchange relationship with substantially the entire said back surface, whereby when heated water flows through said chamber, the said

- reflective surface is heated to prevent fogging.
2. A non-foggable mirror comprising a reflective surface, a back surface, a chamber in heat exchange relationship with substantially the entire said back surface, said chamber having at least one inlet port and at least one outlet port, whereby when heated water flows through said chamber, the said reflective surface is heated to prevent fogging.
3. A non-foggable mirror comprising a reflective surface, a back surface, a frame adapted to hold said back surface in heat exchange relationship with a chamber having at least one inlet port and at least one outlet port, whereby
- 15 when heated water flows through said chamber, the said reflective surface is heated to prevent fogging.
4. An adaptor for a shower outlet comprising a male and female end and a spigot branch for use with a non-foggable mirror as claimed in any one of the preceding claims.
5. A non-foggable mirror substantially as herein described with reference to, and as illustrated by, Figures 1 to 4 of the accompanying drawings.
6. An adaptor substantially as herein described with reference to, and as illustrated by, Figure 5 of the accompanying drawings.

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